

SEQUENCE LISTING



<110> Lin, Daniel Chi-Hong
Zhao, Jiagang
Chen, Jin-Long
Cutler, Gene
Tularik Inc.

<120> Novel Receptors

<130> 018781-006210US

<140> US 09/891,138

<141> 2001-06-25

<150> US 60/213,461

<151> 2000-06-23

COPY OF PAPERS
ORIGINALLY FILED

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<170> PatentIn Ver. 2.1

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<222> (44)..(997)

<223> mouse TGR18 G-protein coupled receptor (GPCR)

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<212> PRT

<213> Homo sapiens

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<223> human TGR21 G-protein coupled receptor (GPCR)

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Gly Ala Pro Ala Ser Gly Pro Pro Ser Arg Arg Val Arg Leu Val Phe
35 40 45
Leu Gly Val Ile Leu Val Val Ala Val Ala Gly Asn Thr Thr Val Leu
50 55 60
Cys Arg Leu Cys Gly Gly Gly Gly Pro Trp Ala Gly Pro Lys Arg Arg
65 70 75 80
Lys Met Asp Phe Leu Val Gln Leu Ala Leu Ala Asp Leu Tyr Ala
85 90 95
Cys Gly Gly Thr Ala Leu Ser Gln Leu Ala Trp Glu Leu Leu Gly Glu
100 105 110
Pro Arg Ala Ala Thr Gly Asp Leu Ala Cys Arg Phe Leu Gln Leu Leu
115 120 125
Gln Ala Ser Gly Arg Gly Ala Ser Ala His Leu Val Val Leu Ile Ala
130 135 140
Leu Glu Arg Arg Arg Ala Val Arg Leu Pro His Gly Arg Pro Leu Pro
145 150 155 160
Ala Arg Ala Leu Ala Ala Leu Gly Trp Leu Leu Ala Leu Leu Leu Ala
165 170 175
Leu Pro Pro Ala Phe Val Val Arg Gly Asp Ser Pro Ser Pro Leu Pro
180 185 190
Pro Pro Pro Pro Thr Ser Leu Gln Pro Gly Ala Pro Pro Ala Ala
195 200 205

a2
cont

Arg Ala Trp Pro Gly Glu Arg Arg Cys His Gly Ile Phe Ala Pro Leu
 210 215 220
 Pro Arg Trp His Leu Gln Val Tyr Ala Phe Tyr Glu Ala Val Ala Gly
 225 230 235 240
 Phe Val Ala Pro Val Thr Val Leu Gly Val Ala Cys Gly His Leu Leu
 245 250 255
 Ser Val Trp Trp Arg His Arg Pro Gln Ala Pro Ala Ala Ala Pro
 260 265 270
 Trp Ser Ala Ser Pro Gly Arg Ala Pro Ala Pro Ser Ala Leu Pro Arg
 275 280 285
 Ala Lys Val Gln Ser Leu Lys Met Ser Leu Leu Leu Ala Leu Leu Phe
 290 295 300
 Val Gly Cys Glu Leu Pro Tyr Phe Ala Ala Arg Leu Ala Ala Ala Trp
 305 310 315 320
 Ser Ser Gly Pro Ala Gly Asp Trp Glu Gly Glu Gly Leu Ser Ala Ala
 325 330 335
 Leu Arg Val Val Ala Met Ala Asn Ser Ala Leu Asn Pro Phe Val Tyr
 340 345 350
 Leu Phe Phe Gln Ala Gly Asp Cys Arg Leu Arg Arg Gln Leu Arg Lys
 355 360 365
 Arg Leu Gly Ser Leu Cys Cys Ala Pro Gln Gly Gly Ala Glu Asp Glu
 370 375 380
 Glu Gly Pro Arg Gly His Gln Ala Leu Tyr Arg Gln Arg Trp Pro His
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 <212> DNA
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<220>
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 <222> (25)..(1197)
 <223> human TGR62 G-protein coupled receptor (GPCR)

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 <223> human TGR62 G-protein coupled receptor (GPCR)

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 35 40 45
 Arg Ser Ser Tyr Phe Phe Leu Asn Leu Ala Ile Ser Asp Phe Phe Val
 50 55 60
 Gly Val Ile Ser Ile Pro Leu Tyr Ile Pro His Thr Leu Phe Glu Trp
 65 70 75 80
 Asp Phe Gly Lys Glu Ile Cys Val Phe Trp Leu Thr Thr Asp Tyr Leu
 85 90 95
 Leu Cys Thr Ala Ser Val Tyr Asn Ile Val Leu Ile Ser Tyr Asp Arg
 100 105 110
 Tyr Leu Ser Val Ser Asn Ala Val Ser Tyr Arg Thr Gln His Thr Gly
 115 120 125
 Val Leu Lys Ile Val Thr Leu Met Val Ala Val Trp Val Leu Ala Phe
 130 135 140
 Leu Val Asn Gly Pro Met Ile Leu Val Ser Glu Ser Trp Lys Asp Glu
 145 150 155 160
 Gly Ser Glu Cys Glu Pro Gly Phe Phe Ser Glu Trp Tyr Ile Leu Ala
 165 170 175
 Ile Thr Ser Phe Leu Glu Phe Val Ile Pro Val Ile Leu Val Ala Tyr
 180 185 190
 Phe Asn Met Asn Ile Tyr Trp Ser Leu Trp Lys Arg Asp His Leu Ser
 195 200 205
 Arg Cys Gln Ser His Pro Gly Leu Thr Ala Val Ser Ser Asn Ile Cys
 210 215 220
 Gly His Ser Phe Arg Gly Arg Leu Ser Ser Arg Arg Ser Leu Ser Ala
 225 230 235 240
 Ser Thr Glu Val Pro Ala Ser Phe His Ser Glu Arg Gln Arg Arg Lys
 245 250 255
 Ser Ser Leu Met Phe Ser Ser Arg Thr Lys Met Asn Ser Asn Thr Ile
 260 265 270
 Ala Ser Lys Met Gly Ser Phe Ser Gln Ser Asp Ser Val Ala Leu His
 275 280 285
 Gln Arg Glu His Val Glu Leu Leu Arg Ala Arg Arg Leu Ala Lys Ser
 290 295 300
 Leu Ala Ile Leu Leu Gly Val Phe Ala Val Cys Trp Ala Pro Tyr Ser
 305 310 315 320
 Leu Phe Thr Ile Val Leu Ser Phe Tyr Ser Ser Ala Thr Gly Pro Lys
 325 330 335
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 340 345 350
 Val Asn Pro Leu Leu Tyr Pro Leu Cys His Lys Arg Phe Gln Lys Ala
 355 360 365

a2
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Ser Asn Cys Ala Arg Arg Ala Pro Gly Pro Pro Ser Asp Thr Phe Val
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 Phe Asn Leu Ala Leu Ala Asp Leu Gly Leu Ala Leu Thr Leu Pro Phe
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 100 105 110
 Leu Cys Lys Met Val Leu Thr Ala Thr Val Leu Asn Val Tyr Ala Ser
 115 120 125
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 130 135 140
 Met Ala Ala Gly Pro Gly Thr His Leu Ser Leu Phe Trp Ala Arg Ile
 145 150 155 160
 Ala Thr Leu Ala Val Trp Ala Ala Ala Ala Leu Val Thr Val Pro Thr
 165 170 175
 Ala Val Phe Gly Val Glu Gly Glu Val Cys Gly Val Arg Leu Cys Leu
 180 185 190
 Leu Arg Phe Pro Ser Arg Tyr Trp Leu Gly Ala Tyr Gln Leu Gln Arg
 195 200 205
 Val Val Leu Ala Phe Met Val Pro Leu Gly Val Ile Thr Thr Ser Tyr
 210 215 220
 Leu Leu Leu Leu Ala Phe Leu Gln Arg Arg Gln Arg Arg Gln Asp
 225 230 235 240
 Ser Arg Val Val Ala Arg Ser Val Arg Ile Leu Val Ala Ser Phe Phe
 245 250 255
 Leu Cys Trp Phe Pro Asn His Val Val Thr Leu Trp Gly Val Leu Val
 260 265 270
 Lys Phe Asp Leu Val Pro Trp Asn Ser Thr Phe Tyr Thr Ile Gln Thr
 275 280 285
 Tyr Val Phe Pro Val Thr Thr Cys Leu Ala His Ser Asn Ser Cys Leu
 290 295 300
 Asn Pro Val Leu Tyr Cys Leu Leu Arg Arg Glu Pro Arg Gln Ala Leu
 305 310 315 320
 Ala Gly Thr Phe Arg Asp Leu Arg Ser Arg Leu Trp Pro Gln Gly Gly
 325 330 335
 Gly Trp Val Gln Gln Val Ala Leu Lys Gln Val Gly Arg Arg Trp Val
 340 345 350
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 355 360 365
 Asp Arg Gly Thr Pro Gly
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 <212> DNA
 <213> Homo sapiens

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 <222> (93)..(1217)
 <223> human TGR130.2 G-protein coupled receptor (GPCR)

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<211> 374

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<213> Homo sapiens

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<223> human TGR130.2 G-protein coupled receptor (GPCR)

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20 25 30
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35 40 45
Val Gly Ala Ile Gly Leu Leu Gly Asn Leu Ala Val Leu Trp Val Leu
50 55 60
Ser Asn Cys Ala Arg Arg Ala Pro Gly Pro Pro Ser Asp Thr Phe Val
65 70 75 80
Phe Asn Leu Ala Leu Ala Asp Leu Gly Leu Ala Leu Thr Leu Pro Phe
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100 105 110
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115 120 125
Ile Phe Leu Ile Thr Ala Leu Ser Val Ala Arg Tyr Trp Val Val Ala
130 135 140
Met Ala Ala Gly Pro Gly Thr His Leu Ser Leu Phe Trp Ala Arg Ile
145 150 155 160
Ala Thr Leu Ala Val Trp Ala Ala Ala Ala Leu Val Thr Val Pro Thr
165 170 175
Ala Val Phe Gly Val Glu Gly Glu Val Cys Gly Val Arg Leu Cys Leu
180 185 190
Leu Arg Phe Pro Ser Arg Tyr Trp Leu Gly Ala Tyr Gln Leu Gln Arg
195 200 205
Val Val Leu Ala Phe Met Val Pro Leu Gly Val Ile Thr Thr Ser Tyr
210 215 220
Leu Leu Leu Leu Ala Phe Leu Gln Arg Arg Gln Arg Arg Arg Gln Asp
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<223> human TGR213 G-protein coupled receptor (GPCR)
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Glu	Val	Gly	Leu	Arg	Asp	Val	Ala	Ser	Glu	Ser	Val	Ala	Leu	Phe	Phe
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Met	Leu	Leu	Leu	Asp	Leu	Thr	Ala	Val	Ala	Gly	Asn	Ala	Ala	Val	Met
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His	Leu	Cys	Leu	Val	Asp	Leu	Leu	Ala	Ala	Leu	Thr	Leu	Met	Pro	Leu
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Ala	Met	Leu	Ser	Ser	Ser	Ala	Leu	Phe	Asp	His	Ala	Leu	Phe	Gly	Glu
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Ala	Ile	Leu	Ser	Val	Ser	Ala	Ile	Asn	Val	Glu	Arg	Tyr	Tyr	Tyr	Val
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Ser	Val	Leu	Val	Gly	Val	Trp	Val	Lys	Ala	Leu	Ala	Met	Ala	Ser	Val
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Asp	Ile	Ile	Met	Ser	Asp	Ser	Tyr	Leu	Arg	Pro	Ala	Ala	Ser	Pro	Arg
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<220>
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 <223> human EDG (hEDG) receptor G-protein coupled receptor (GPCR)

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 gtgggtgtgcc tggcggtgtg cgccttcctc gtgctagaga atctagccgt gttgttgggtg 180
 ctcggaacgcc acccgcgctt ccacgctccc atgttctctg tcctgggcag cctcacgttg 240
 tcggaatctg tggcaggcgc cgcctacgcc gccaacatcc tactgtcggg gccgctcacg 300
 ctgaaactgt ccccgcgct ctggttcgca cgggaggag gcgtcttcgt ggcactcact 360
 gcgtccgtgc tgagcctcct ggccatcgcg ctggagcgca gcctcacat ggcgcgcagg 420
 gggcccgcg cgtctccag tggggggcgc acgctggcga tggcagccgc ggcctggggc 480
 gtgtcgctgc tctcgggct cctgccagcg ctgggctgga attgcctggg tcgcctggac 540
 gcttgctcca ctgtcttgcc gctctacgcc aaggcctacg tgctctctg cgtgctcgcc 600
 ttctggggca tcctggccgc tatctgtgca ctctacgcgc gcctctactg ccaggtacgc 660
 gccaacgcgc ggcgcctgcc ggcacggccc gggactgcgg ggaccacctc gaccggggcg 720
 cgtcgcaagc cgcgctcgct ggccttgctg cgcacgctca gcgtggtgct cctggccttt 780
 gtggcatggt gggggcccct ctctctgctg ctgttgctcg acgtggcggtg cccggcgcg 840
 acctgtcctg tactcctgca ggccgatccc ttctggggac tggccatggc caactcactt 900
 ctgaacccca tcatctacac gctcaccaac cgcgacctgc gccacgcgt cctgcgcctg 960
 gtctgctgcg gacgccactc ctgcggcaga gacccgagtg gctcccagca gtcggcgagc 1020
 gcggctgagg cttccggggg cctgcgcgcg tgccctgccc cgggccttga tgggagcttc 1080
 agcggtcgg agcgtctatc gccccagcgc gacgggctgg acaccagcgg ctccacaggc 1140
 agccccgggtg caccacagc cgcccgact ctggtatcag aaccggctgc agactga 1197

<210> 14
 <211> 398
 <212> PRT
 <213> Homo sapiens

<220>
 <223> human EDG (hEDG) receptor G-protein coupled receptor (GPCR)

<400> 14
 Met Glu Ser Gly Leu Leu Arg Pro Ala Pro Val Ser Glu Val Ile Val
 1 5 10 15
 Leu His Tyr Asn Tyr Thr Gly Lys Leu Arg Gly Ala Arg Tyr Gln Pro
 20 25 30
 Gly Ala Gly Leu Arg Ala Asp Ala Val Val Cys Leu Ala Val Cys Ala
 35 40 45
 Phe Ile Val Leu Glu Asn Leu Ala Val Leu Leu Val Leu Gly Arg His
 50 55 60
 Pro Arg Phe His Ala Pro Met Phe Leu Leu Leu Gly Ser Leu Thr Leu
 65 70 75 80
 Ser Asp Leu Leu Ala Gly Ala Ala Tyr Ala Ala Asn Ile Leu Leu Ser
 85 90 95
 Gly Pro Leu Thr Leu Lys Leu Ser Pro Ala Leu Trp Phe Ala Arg Glu
 100 105 110
 Gly Gly Val Phe Val Ala Leu Thr Ala Ser Val Leu Ser Leu Leu Ala
 115 120 125
 Ile Ala Leu Glu Arg Ser Leu Thr Met Ala Arg Arg Gly Pro Ala Pro
 130 135 140

Val	Ser	Ser	Arg	Gly	Arg	Thr	Leu	Ala	Met	Ala	Ala	Ala	Ala	Trp	Gly	145	150	155	160
Val	Ser	Leu	Leu	Leu	Gly	Leu	Leu	Pro	Ala	Leu	Gly	Trp	Asn	Cys	Leu	165	170	175	
Gly	Arg	Leu	Asp	Ala	Cys	Ser	Thr	Val	Leu	Pro	Leu	Tyr	Ala	Lys	Ala	180	185	190	
Tyr	Val	Leu	Phe	Cys	Val	Leu	Ala	Phe	Val	Gly	Ile	Leu	Ala	Ala	Ile	195	200	205	
Cys	Ala	Leu	Tyr	Ala	Arg	Ile	Tyr	Cys	Gln	Val	Arg	Ala	Asn	Ala	Arg	210	215	220	
Arg	Leu	Pro	Ala	Arg	Pro	Gly	Thr	Ala	Gly	Thr	Thr	Ser	Thr	Arg	Ala	225	230	235	240
Arg	Arg	Lys	Pro	Arg	Ser	Leu	Ala	Leu	Leu	Arg	Thr	Leu	Ser	Val	Val	245	250	255	
Leu	Leu	Ala	Phe	Val	Ala	Cys	Trp	Gly	Pro	Leu	Phe	Leu	Leu	Leu	Leu	260	265	270	
Leu	Asp	Val	Ala	Cys	Pro	Ala	Arg	Thr	Cys	Pro	Val	Leu	Leu	Gln	Ala	275	280	285	
Asp	Pro	Phe	Leu	Gly	Leu	Ala	Met	Ala	Asn	Ser	Leu	Leu	Asn	Pro	Ile	290	295	300	
Ile	Tyr	Thr	Leu	Thr	Asn	Arg	Asp	Leu	Arg	His	Ala	Leu	Leu	Arg	Leu	305	310	315	320
Val	Cys	Cys	Gly	Arg	His	Ser	Cys	Gly	Arg	Asp	Pro	Ser	Gly	Ser	Gln	325	330	335	
Gln	Ser	Ala	Ser	Ala	Ala	Glu	Ala	Ser	Gly	Gly	Leu	Arg	Arg	Cys	Leu	340	345	350	
Pro	Pro	Gly	Leu	Asp	Gly	Ser	Phe	Ser	Gly	Ser	Glu	Arg	Ser	Ser	Pro	355	360	365	
Gln	Arg	Asp	Gly	Leu	Asp	Thr	Ser	Gly	Ser	Thr	Gly	Ser	Pro	Gly	Ala	370	375	380	
Pro	Thr	Ala	Ala	Arg	Thr	Leu	Val	Ser	Glu	Pro	Ala	Ala	Asp			385	390	395	

<210> 15
 <211> 1152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(1152)
 <223> human TGR92 G-protein coupled receptor (GPCR)

<400> 15
 atggaacttc ataacctgag ctctccatct cctctctctt cctcctctgt tctccctccc 60
 tcctttctct cctcaccctc ctctgctccc tctgccttta ccactgtggg ggggtcctct 120
 ggaggggcct gccacccac ctcttctctg ctgggtgtctg ccttctctgg accaatcctg 180
 gccctggagt ttgtcctggg cctgggtggg aacagtgttg cctcttctcat ctctgcatc 240
 cacacgcggc cctggacctc caacacggtg ttctgggtca gctgggtggc cgctgacttc 300
 ctctgatca gcaacctgcc cctccgctg gactactacc tctccatga gacctggcgc 360
 tttggggctg ctgctgcaa agtcaacctc ttcatgctgt ccaccaaccg cacggccagc 420
 gttgtcttcc tcacagccat cgcactcaac cgctacctga aggtgggtgca gccccaccac 480
 gtgctgagcc gtgcttccgt gggggcagct gcccggtgg ccgggggact ctgggtgggc 540
 atcctgctcc tcaacgggca cctgctcctg agcaccttct ccggccctc ctgcctcagc 600
 tacagggtgg gcacgaagcc ctggcctcg ctccgctggc accaggcact gtacctgctg 660
 gagttcttcc tgccactggc gctcctctc tttgctattg tgagcattgg gctcaccatc 720
 cggaaccgtg gctggggcgg gcaggcagg ccgcagagg ccatgcgtgt gctggccatg 780
 gtgggtggcg tctacacat ctgcttcttg ccagcatca tctttggcat ggcttccatg 840
 gtggctttct ggctgtccgc ctgccgatcc ctggacctct gcacacagct cttccatggc 900
 tccctggcct tcacctacct caacagtgtc ctggaccccg tgctctactg cttctctagc 960

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cccaacttcc tccaccagag cggggccttg ctgggcctca cgcggggccg gcagggccca 1020
gtgagcgacg agagctccta ccaaccctcc aggcagtggc gctaccggga ggctctagg 1080
aaggcggagg ccatagggaa gctgaaagtg cagggcgagg tctctctgga aaaggaaggc 1140
tctcccagg gc 1152

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<210> 16
<211> 384
<212> PRT
<213> Homo sapiens

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<220>
<223> human TGR92 G-protein coupled receptor (GPCR)

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<400> 16
Met Glu Leu His Asn Leu Ser Ser Pro Ser Pro Ser Leu Ser Ser Ser
1      5      10      15
Val Leu Pro Pro Ser Phe Ser Pro Ser Pro Ser Ser Ala Pro Ser Ala
20      25      30
Phe Thr Thr Val Gly Gly Ser Ser Gly Gly Pro Cys His Pro Thr Ser
35      40      45
Ser Ser Leu Val Ser Ala Phe Leu Ala Pro Ile Leu Ala Leu Glu Phe
50      55      60
Val Leu Gly Leu Val Gly Asn Ser Leu Ala Leu Phe Ile Phe Cys Ile
65      70      75      80
His Thr Arg Pro Trp Thr Ser Asn Thr Val Phe Leu Val Ser Leu Val
85      90      95
Ala Ala Asp Phe Leu Leu Ile Ser Asn Leu Pro Leu Arg Val Asp Tyr
100     105     110
Tyr Leu Leu His Glu Thr Trp Arg Phe Gly Ala Ala Ala Cys Lys Val
115     120     125
Asn Leu Phe Met Leu Ser Thr Asn Arg Thr Ala Ser Val Val Phe Leu
130     135     140
Thr Ala Ile Ala Leu Asn Arg Tyr Leu Lys Val Val Gln Pro His His
145     150     155     160
Val Leu Ser Arg Ala Ser Val Gly Ala Ala Ala Arg Val Ala Gly Gly
165     170     175
Leu Trp Val Gly Ile Leu Leu Leu Asn Gly His Leu Leu Leu Ser Thr
180     185     190
Phe Ser Gly Pro Ser Cys Leu Ser Tyr Arg Val Gly Thr Lys Pro Ser
195     200     205
Ala Ser Leu Arg Trp His Gln Ala Leu Tyr Leu Leu Glu Phe Phe Leu
210     215     220
Pro Leu Ala Leu Ile Leu Phe Ala Ile Val Ser Ile Gly Leu Thr Ile
225     230     235     240
Arg Asn Arg Gly Leu Gly Gly Gln Ala Gly Pro Gln Arg Ala Met Arg
245     250     255
Val Leu Ala Met Val Val Ala Val Tyr Thr Ile Cys Phe Leu Pro Ser
260     265     270
Ile Ile Phe Gly Met Ala Ser Met Val Ala Phe Trp Leu Ser Ala Cys
275     280     285
Arg Ser Leu Asp Leu Cys Thr Gln Leu Phe His Gly Ser Leu Ala Phe
290     295     300
Thr Tyr Leu Asn Ser Val Leu Asp Pro Val Leu Tyr Cys Phe Ser Ser
305     310     315     320
Pro Asn Phe Leu His Gln Ser Arg Ala Leu Leu Gly Leu Thr Arg Gly
325     330     335
Arg Gln Gly Pro Val Ser Asp Glu Ser Ser Tyr Gln Pro Ser Arg Gln
340     345     350
Trp Arg Tyr Arg Glu Ala Ser Arg Lys Ala Glu Ala Ile Gly Lys Leu
355     360     365

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Lys Val Gln Gly Glu Val Ser Leu Glu Lys Glu Gly Ser Ser Gln Gly
 370 375 380

<210> 17
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:mouse TGR18
 gene specific primer oligo for 5' RACE (Rapid
 Amplification of cDNA ends)

<400> 17
 ggtagaactt ctaaggtcac taagggccag 30

<210> 18
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:mouse TGR18
 nested gene specific primer oligo for 5' RACE
 (Rapid Amplification of cDNA ends)

<400> 18
 aagttctcgg acaggggtact tcatgagcag 30

<210> 19
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:mouse TGR18
 gene specific primer oligo for 3' RACE (Rapid
 Amplification of cDNA ends)

<400> 19
 ccattctctga ctttgctttc ctgtgcaccc 30

<210> 20
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:mouse TGR18
 nested gene specific primer oligo for 3' RACE
 (Rapid Amplification of cDNA ends)

<400> 20
 gcaaccgata tgtgcttcac accaacctc 29

a2
 cont

<210> 21
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
gene specific primer oligo for 5' RACE (Rapid
Amplification of cDNA ends)

<400> 21
gagagtgacc acatggttgg gaaaccagc

29

<210> 22
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
nested gene specific primer oligo for 5' RACE
(Rapid Amplification of cDNA ends)

<400> 22
gccagcacca ccctctgcag ctggta

26

<210> 23
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
gene specific primer oligo for 3' RACE (Rapid
Amplification of cDNA ends)

<400> 23
ccttcagaca ccttcgtctt caacctggc

29

<210> 24
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
nested gene specific primer oligo for 3' RACE
(Rapid Amplification of cDNA ends)

<400> 24
gcagccgagt cggcactgga ctttcac

27

<210> 25
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer
oligonucleotide for PCR amplification of human
TGR62

<400> 25

tgaccttctt catcatttga tgtg

24

<210> 26

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer
oligonucleotide for PCR amplification of human
TGR62

<400> 26

gataaaagggc agacctgatt ca

22

A2